

**DECLARATION
FOR PATENT APPLICATION**

As an undersigned inventor, I hereby declare that:

My residence, post office address and country of citizenship are as stated directly below my name.

I believe (check one) ☐ I am the original, first and sole inventor
☒ I am a joint inventor and the below named inventors are the
original and first inventors

of the subject matter which is claimed and for which a patent is sought on the invention entitled

**NON-OXIDIZING SPACER DENSIFICATION METHOD FOR MANUFACTURING
SEMICONDUCTOR DEVICES**

the specification of which

(check one) ☐ is attached hereto.
☒ was filed on July 30, 2001,
as Application Serial No. 09/918,364,
and was amended on _____.
(if applicable)

I further declare that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office (hereinafter "the Office") all information known to me to be material to patentability of the subject matter which is claimed as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate indicated below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

| Prior Foreign Application(s) | | | Priority Claimed | |
|------------------------------|---------|----------------------|------------------|----|
| Number | Country | Day/Month/Year Filed | Yes | No |
| _____ | _____ | _____ | _____ | X |

I hereby claim the benefit under 35 U.S. C. § 119(e) of any United States provisional application listed below:

Provisional Application Serial No.

Filing Date

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.

Filing Date

Status (patented, pending, abandoned)

Address all correspondence and telephone calls to the following:

William W. Enders
O'KEEFE, EGAN & PETERMAN
1101 Capital of Texas Highway South
Building C, Suite 200
Austin, TX 78746
(512) 347-1611
(512) 347-1615 (Fax)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: BRETT D. LOWE

Inventor's Signature

Brett D. Lowe

8/28/01
Date

Residence: 13186 W. Buttercup Ct., Boise, ID 83713

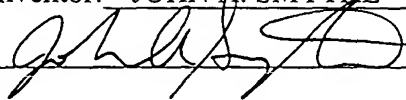
Citizenship: U.S.A.

Post Office Address: SAME

(enter "same" if mailing address is same as residence address)

Full name of second joint inventor: JOHN A. SMYTHE

Inventor's Signature



8-28-2001

Date

Residence: 4546 S. Riva Ridge Way, Boise, Idaho 83709

Citizenship: U.S.A.

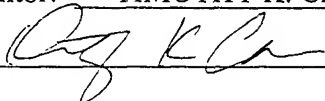
Post Office Address:

SAME

(enter "same" if mailing address is same as residence address)

Full name of third joint inventor: TIMOTHY K. CARNS

Inventor's Signature



8-28-2001

Date

Residence: 693 E. Martinique Dr., Meridian, Idaho 83642

Citizenship: U.S.A.

Post Office Address:

SAME

(enter "same" if mailing address is same as residence address)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: BRETT D. LOWE, ET AL.
Filed: JULY 30, 2001
For: NON-OXIDIZING SPACER DENSIFICATION METHOD FOR
MANUFACTURING SEMICONDUCTOR DEVICES
Group Art Unit: 2812
Examiner: Unknown
Atty Dkt: ZILG518

Pursuant to 37 C.F.R. 1.8, I certify that this correspondence is being deposited with the U.S. Postal Service in a first class, postage prepaid envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on the date below:

9-13-01 Marty Bow
Date Name

Assistant Commissioner For Patents
Washington, D.C. 20231

**ELECTION UNDER 37 C.F.R. §§3.71 AND 3.73
AND POWER OF ATTORNEY**

Sir:

The undersigned being Assignee of record of the entire interest in the above-identified application by virtue of an assignment recorded in the United States Patent and Trademark Office as set forth below, hereby elects, under 37 C.F.R. §3.71, to prosecute the application to the exclusion of the inventor. A statement under 37 C.F.R. 3.73(b) (PTO Form PTO/SB/96 (6-98)) is concurrently filed herewith.

The Assignee hereby revokes any previous Powers of Attorney and appoints H. Shannon Tyson, Jr., Reg. No. 42,193 of ZiLog, Inc. and also appoints Robert M. O'Keefe, Reg. No. 35,630; Richard D. Egan, Reg. No. 36,788; Brian W. Peterman, Reg. No. 37,908, William W. Enders, Reg. No. 41,735, and Maximilian R. Peterson, Reg. No. 46,469, each an attorney of the firm of O'KEEFE, EGAN & PETERMAN, LLP, as its attorney for so long as they remain with such firm, with full power of substitution and revocation, to prosecute the application, to make

alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.


Pursuant to 37 C.F.R. §3.73, the undersigned has reviewed the evidentiary documents, specifically the Assignment to ZiLOG, INC. referenced below, and certifies that to the best of my knowledge and belief, title remains in the name of the Assignee.

Please direct all communications as follows:

William W. Enders
O'KEEFE, EGAN & PETERMAN, LLP
1101 Capital of Texas Highway South
Building C, Suite 200
Austin, Texas 78746
512/347-1611
FAX 512/347-1615

ASSIGNEE:

ZILOG, INC.

By: 
Name: Daniel Jochnowitz
Title: Vice President & General Counsel

Date: 8/10/01

ASSIGNMENT:

- ☒ Concurrently herewith
☐ Previously filed [date](copy enclosed)
☐ Previously recorded
Date: _____
Reel: _____
Frame: _____

O'KEEFE, EGAN & PETERMAN, L.L.P.
1101 Capital of Texas Highway South
Building C, Suite 200
Austin, Texas 78746
512-347-1611

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Brett D. Lowe, et al.

Application No./Patent No.: Unknown Filed/Issue Date: Herewith

Entitled: NON-OXIDIZING SPACER DENSIFICATION METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICES

ZiLog, Inc.

(Name of Assignee)

, a

Corporation

(Type - Corp., Partner, Univ., Govt Agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or

2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A. [X] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[X] Copies of assignments or other documents in the chain of title are attached.

[NOTE]: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

8/10/01

Date


Signature

Daniel Jochnowitz

Typed or printed name

Vice President & General Counsel

Title

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to ZiLog, Inc. (the "Assignee"), being incorporated under the laws of the State of Delaware, having a place of business at 910 East Hamilton Avenue, Campbell, CA 95008, the entire right, title and interest for the United States and all foreign countries in and to any and all improvement which are disclosed in the application for United States Letters Patent concurrently filed herewith and entitled "NON-OXIDIZING SPACER DENSIFICATION METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICES," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature): Brett D. Lowe Date: 7-23-01
BRETT D. LOWE

State of Idaho)
)
County of CANYON)

BEFORE ME, the undersigned authority, on this 23rd day of July, 2001, personally appeared BRETT D. LOWE, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

Patricia James
Notary or Consular Officer

(Signature): 
JOHN A. SMYTHE

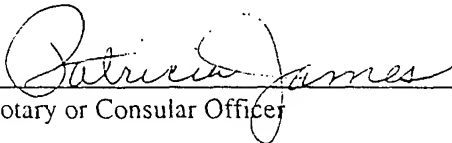
Date: 7-26-2001

State of Idaho)

County of CANYON)

BEFORE ME, the undersigned authority, on this 26th day of July, 2001, personally appeared JOHN A. SMYTHE, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]


Notary or Consular Officer

(Signature): 
TIMOTHY K. CARNS

Date: 7-23-2001

State of Idaho)

County of CANYON)

BEFORE ME, the undersigned authority, on this 23rd day of July, 2001, personally appeared TIMOTHY K. CARNS, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]


Notary or Consular Officer